BRUHAT BANGALORE MAHANAGARA PALIKE

Asst.Executive Engineer,
Shettyhalli Sub Division,

Name of Work:- Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Est Cost:58.00 Lakhs

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BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of work:Improvements to Roads At Mallikarjuna Swamy Temple And Shreeshakthi Bhavana Surrounding Area In Ward No.13 Shettyhalli Sub Division

Est .Cost Rs 58.00 Lakhs

Sl. No		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M200-12.3. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202 (Page No.139/ Item No.18.19/ PWD SR 2018-19)								
	Deck Slab								
	8th A Cross		1	36.00	1.00	0.20	7.20		
		Cum					**7.20**	**1684.34**	**12127.00**
	Basic Rate	1589.00							
	Area Weightage 6%	95.34							
	Grand Total	**1684.34**							
2	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 143/ Item No. 19.1/ PWD SR 2018-19)**								
	Desilt								
	8th A Cross		1	36.00	0.60	0.45	9.72		
	Mallikarjuna Swamy Temple Road		1	114.00	0.60	0.50	34.20		
			1	150.00	0.60	0.50	45.00		
	For RCC Culvert								
	8th A Cross		1	10.90	2.00	1.30	28.34		
			1	3.90	1.50	1.30	7.61		
			1	4.50	2.00	1.30	11.70		
			1	3.90	1.50	1.30	7.61		
	Uchhangi Temple Road		1	6.00	2.00	1.30	15.60		
	For CC Road								
	8th A cross		2	31.00	1.20	0.30	22.32		
	Near Shreeshakthi Bhavana		1	55.00	4.20	0.30	69.30		
	Uchhangi Temple Road		1	142.00	5.60	0.30	238.56		
	Mallikarjuna Swamy Temple Road		2	152.00	1.20	0.30	109.44		
	Parallel road to Shreeshakthi Bhavana		1	31.00	3.20	0.30	29.76		
		Cum					**629.15**	**137.80**	**86697.00**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	**137.80**							
3	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Removing and Refixing								
	Mallikarjuna Swamy Temple Road		1	114.00	0.90		102.60		
			1	150.00	0.90		135.00		
							237.60		
			Consider 30% Missing Slabs				71.28		
		Sqm					**166.32**	**137.80**	**22919.00**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	**137.80**							
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For RCC Culvert								
	8th A Cross		1	10.90	2.00	0.15	3.27		
			1	3.90	1.50	0.15	0.88		
			1	4.50	2.00	0.15	1.35		

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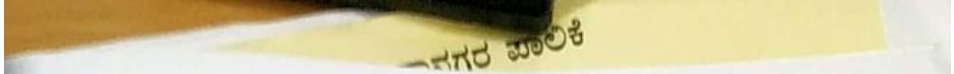

Sl. No		Unit	No	Dimension			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
	Uchhangi Temple Road		1	3.90	1.50	0.15	0.88		
	For CC Road		1	6.00	2.00	0.15	1.80		
	8th A cross								
	Near Shreeshakthi Bhavana		2	31.00	1.20	0.15	11.16		
	Uchhangi Temple Road		1	55.00	4.20	0.15	34.65		
	Mallikarjuna Swamy Temple Road		1	142.00	5.60	0.15	119.28		
	Parallel road to Shreeshakthi Bhavana		2	152.00	1.20	0.15	54.72		
			1	31.00	3.20	0.15	14.88		
		Cum					242.87	5509.33	1338023.00
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No V Sl No 123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						-
	Sub Total	5197.48							
	Area Weightage 6%	311.85							
	Grand Total	5509.33							
5	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59 2.P No-271 PWD SR 2018-19)								
	For RCC Culvert								
	For Bottom Raft								
	8th A Cross		1	10.90	1.80	0.20	3.92		
			1	3.90	1.20	0.20	0.94		
			1	4.50	1.80	0.20	1.62		
			1	3.90	1.20	0.20	0.94		
	Uchhangi Temple Road		1	6.00	1.80	0.20	2.16		
	For Wall								
	8th A Cross		2	10.90	0.30	0.75	4.91		
			2	3.90	0.30	0.75	1.76		-
			2	4.50	0.30	0.75	2.03		
			2	3.90	0.30	0.75	1.76		
	Uchhangi Temple Road		2	6.00	0.30	0.75	2.70		
	Deck Slab								
	For Bottom Raft								
	8th A Cross		1	10.90	1.80	0.25	4.91		
			1	4.50	1.80	0.25	2.03		
	Uchhangi Temple Road		1	6.00	1.80	0.25	2.70		
	Coping For Drain								
	8th A Cross		2	36.00	0.15	0.15	1.62		
	Mallikarjuna Swamy Temple Road		2	114.00	0.15	0.15	5.13		
			2	150.00	0.15	0.15	6.75		
		Cum					45.85	7189.42	329606.00
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	6782.47							
	Area Weightage 6%	406.95							
	Grand Total	7189.42							-
6	KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2.P No-229 PWD SR 2018-19)								
	Consider 90kg/Cum for Culvert		1	32.35	90.00		2911.14		
		Tonne					2.91	72326.98	210554.00
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	72326.98							

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Sl. No		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
7	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc.and complete as per the directions of Enginner in charges.(Data Rate)								
	For New Precast Slab								
	8th A cross								
			1	36.00	0.90		32.40		
				AS per Vide Item No.3			71.28		
		Sqm					103.68	1615.00	167443.00
	Data Rate	1615.00							
8	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc.complete and as per the directions of Engineer in-Charge. **(Data Rate)**								-
	For RCC Culvert								
	8th A Cross								
			1	3.90	1.20		4.68		
			1	3.90	1.20		4.68		
		Sqm					9.36	3674.00	34389.00
	Data Rate	3674.00							
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No-140 Item no - 18.47 of KPWD SR 2018-19)**								
	For CC Road								
	8th A cross		2	31.00	1.20	0.15	11.16		
	Mallikarjuna Swamy Temple Road		2	152.00	1.20	0.15	54.72		
		Cum					65.88	952.94	62780.00
	Basic Rate	899.00							
	Area Weightage 6%	53.94							
	Grand Total	952.94							-
10	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**								
	Asphalt Road								
	Uchhangi Temple Road		1	142.50	5.60		798.00		
		Sqm					798.00	95.40	76129.00
	Basic Rate	90.00							
	Area Weightage 6%	5.40							
	Grand Total	95.40							
11	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No. 148, I.No. 19.60 CSR 2018-19)								
	For CC Road								
	Near Shreeshakthi Bhavana		1	55.00	4.20	1.15	265.65		
		Cum					265.65	344.50	91516.00
	Basic Rate	325.00							-
	Area Weightage 6%	19.50							
	Grand Total	344.50							
12	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	For CC Road								
	8th A cross		2	31.00	1.20		74.40		
	Near Shreeshakthi Bhavana		1	55.00	4.20		231.00		

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		Unit	No	Dimension L	B	D	Quantity	Rate in Rs	Amount in Rs.
Uchhangi Temple Road			1	142.00	5.60		795.20		
Mallikarjuna Swamy Temple Road			2	152.00	1.20		364.80		
Parallel road to Shreeshakthi Bhavana			1	31.00	3.20		99.20		
		Sqm					1564.80	6.36	9951.00
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Grand Total	6.36							
KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No:168 Item no - 20.18 of KPWD SR 2018-19).**									
For CC Road									
8th A cross			2	31.00	1.25	0.15	11.63		
Near Shreeshakthi Bhavana			1	55.00	4.20	0.15	34.65		
Uchhangi Temple Road			1	142.00	5.60	0.15	119.28		
Mallikarjuna Swamy Temple Road			2	152.00	1.20	0.15	54.72		
Parallel road to Shreeshakthi Bhavana			1	31.00	3.20	0.15	14.88		
		Cum					235.16	2001.28	470611.00
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	2001.28							
14	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications . - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**									
	For CC Road								
	8th A cross		1	31.00	5.20	0.15	24.18		
	Near Shreeshakthi Bhavana		1	55.00	4.20	0.15	34.65		
	Uchhangi Temple Road		1	142.00	5.60	0.15	119.28		
	Mallikarjuna Swamy Temple Road		1	152.00	6.20	0.15	141.36		
	Parallel road to Shreeshakthi Bhavana		1	31.00	3.20	0.15	14.88		
	8th cross, Mallasandra		1	88.00	3.50	0.15	46.20		
		Cum					380.55	5354.02	2037473.00
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	5050.96							
	Area Weightage 6%	303.06							
	Grand Total	5354.02							
15	Removal of Unserviceable Soil with Disposal KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301 **(P.No.144 & I.No.19.20 PWD 18-19)**								
	Vide Item No.2						629.15		
		Cum					629.15	34.98	22008.00
	Basic Rate	33.00							
	Area Weightage 6%	1.98							
	Grand Total	34.98							
16	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 . Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No 136 & I.No.17.1 PWD 18-19)								
	Vide Item No.1,9 &10						124.95		
		Cum					124.95	57.00	7122.00

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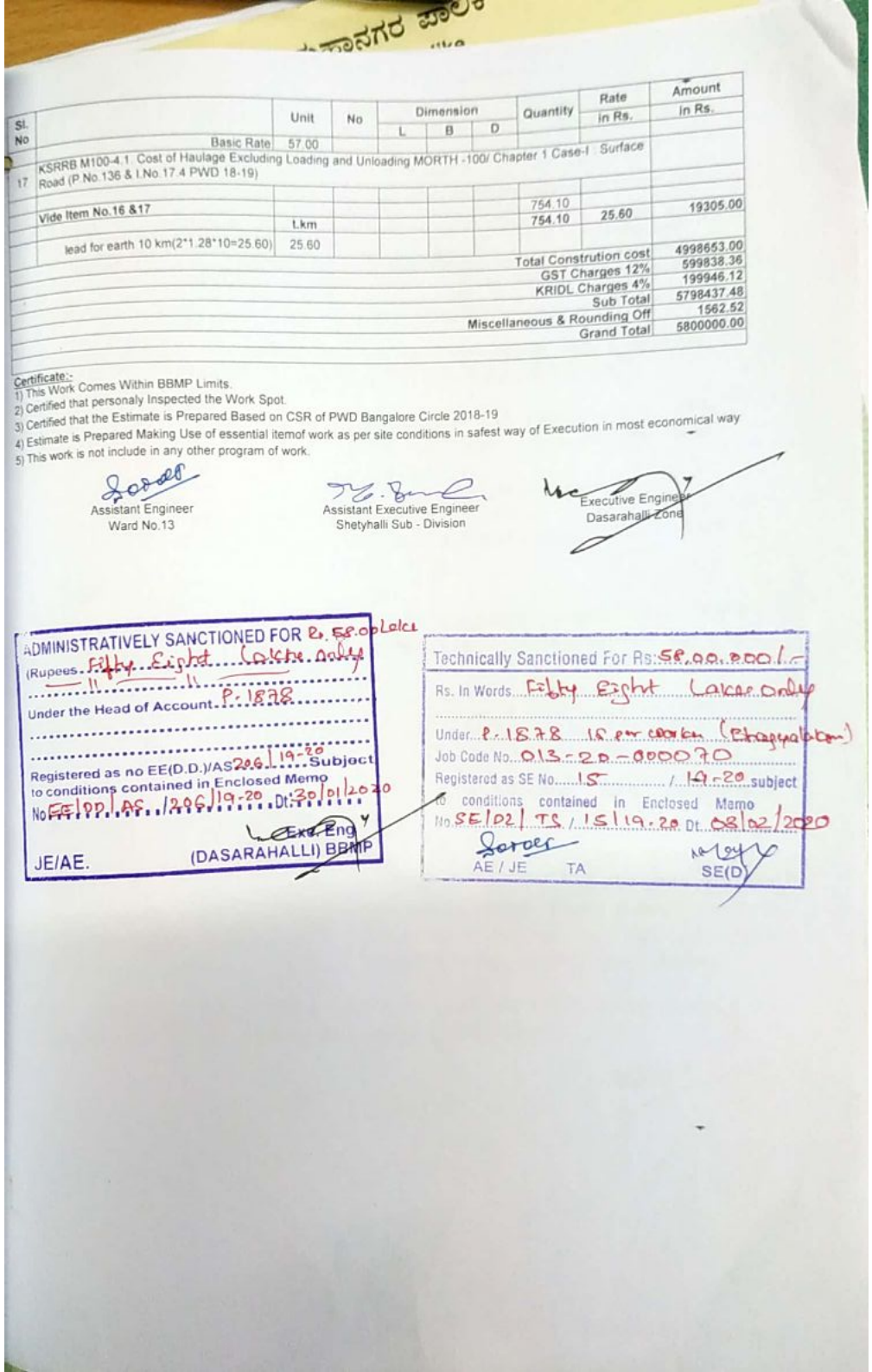

Sl. No		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Basic Rate	57.00							
17	KSRRB M100-4.1: Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
	Vide Item No.16 &17						754.10		
		t.km					754.10	25.60	19305.00
	lead for earth 10 km(2*1.28*10=25.60)	25.60							
								Total Constrution cost	4998653.00
								GST Charges 12%	599838.36
								KRIDL Charges 4%	199946.12
								Sub Total	5798437.48
								Miscellaneous & Rounding Off	1562.52
								Grand Total	5800000.00

Certificate:-
1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shetyhalli Sub - Division

Executive Engineer
Dasarahalli Zone

ADMINISTRATIVELY SANCTIONED FOR Rs. 58.00 Lakhs
(Rupees Fifty Eight Lakhs Only
Under the Head of Account P.1878
Registered as no EE(D.D.)/AS 206/19-20 Subject
to conditions contained in Enclosed Memo
No EE/DD/AS/206/19-20 Dt: 30/01/2020
Exe. Engg
JE/AE. (DASARAHALLI) BBMP

Technically Sanctioned For Rs: 58,00,000/-
Rs. In Words Fifty Eight Lakhs only
Under P.1878 16th Work (Bhagyalakshmi)
Job Code No. 013-20-000070
Registered as SE No. 15 /19-20 subject
to conditions contained in Enclosed Memo
No SE/02/TS/15/19-20 Dt. 08/02/2020
AE / JE TA SE(D)

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